

BEAVER RIVER BASIN

10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT

LOCATION.--Lat 38°13'03", long 112°50'22", in SE^{1/4}NW^{1/4}NW^{1/4} sec. 11, T. 30 S., R. 9 W., Beaver County, Hydrologic Unit 16030007, on right bank and 0.5 mi downstream from Rocky Ford Dam and 4.8 mi east of Minersville.

DRAINAGE AREA.--535 mi².

PERIOD OF RECORD.--December 1913 to September 1936, April 1937 to current year.

REVISED RECORDS.--WSP 1564: 1920, 1924. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Nov. 12, 1916. Elevation of gage is 5,400 ft above sea level, from topographic map. Prior to June 1, 1916, at site 1,500 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. One small diversion between dam and station. Flow regulated by Minersville Reservoir (formerly published as Rockyford Reservoir). Numerous diversions for irrigation and municipal use upstream from reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft³/s June 12, 1983, gage height, 4.74 ft, from rating curve extended above 500 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 0.4 ft³/s Mar. 20, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 171 ft³/s June 28, gage height, 1.91 ft; minimum daily discharge 3.3 ft³/s Nov. 8, 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	4.0	4.2	4.4	4.9	4.9	e6.0	5.8	89	165	39	95
2	4.4	3.8	4.1	4.4	4.9	4.9	e6.0	6.7	90	162	35	73
3	4.6	3.7	4.0	4.6	4.9	4.9	e6.0	50	92	159	38	77
4	4.8	3.7	4.0	4.4	4.9	5.0	e6.2	71	99	156	37	83
5	4.9	3.7	4.2	4.4	4.9	5.2	6.1	98	94	153	33	84
6	4.7	3.7	4.3	4.4	4.8	5.3	6.2	95	96	151	32	86
7	4.4	3.5	4.0	4.4	4.9	5.3	6.5	93	77	148	35	69
8	4.3	3.3	4.0	4.4	4.8	5.3	6.6	98	66	145	49	59
9	4.0	3.3	4.1	4.4	4.4	5.3	6.3	110	61	142	49	58
10	4.0	3.5	4.5	4.4	4.4	e5.3	6.1	104	46	143	63	59
11	3.9	3.7	4.1	4.4	4.4	e5.5	5.8	91	46	142	55	48
12	4.0	3.7	4.1	4.4	4.4	e5.5	6.0	89	45	138	47	42
13	4.0	3.7	4.2	4.4	4.4	e5.4	5.8	89	41	133	53	42
14	4.0	3.7	4.2	4.3	4.7	e5.4	5.8	89	40	135	63	42
15	4.1	3.7	4.0	4.3	4.9	e5.4	5.8	92	33	136	72	43
16	4.4	3.7	4.1	4.4	4.9	e5.5	5.7	94	33	131	74	44
17	4.4	3.7	4.0	4.3	4.9	e5.5	5.8	97	29	138	87	44
18	4.3	3.7	4.0	4.2	4.9	e5.6	5.7	97	26	140	89	31
19	4.4	3.7	4.0	4.3	4.9	e5.7	5.8	108	27	133	96	32
20	4.2	3.7	4.0	4.4	4.9	e5.7	5.8	108	28	126	95	20
21	4.0	3.7	4.0	4.4	4.9	e5.6	6.1	107	38	120	94	6.0
22	4.0	4.2	4.1	4.4	4.9	e5.7	6.1	108	46	123	93	5.7
23	4.0	4.0	4.0	4.4	4.9	e5.6	6.3	105	78	121	92	5.9
24	3.9	3.9	4.0	4.4	4.9	e5.5	6.1	92	88	124	91	6.0
25	4.0	3.7	4.2	4.4	4.9	e5.3	5.8	85	116	114	92	6.1
26	4.0	3.9	4.4	4.4	4.9	e5.7	5.7	86	131	89	99	6.2
27	4.0	4.0	4.4	4.9	5.3	e5.8	5.8	86	150	88	98	6.1
28	4.0	4.1	4.4	5.1	5.2	e5.8	5.8	89	169	50	99	6.0
29	4.0	4.4	4.4	4.9	---	e5.9	5.8	88	168	42	98	5.9
30	4.0	4.3	4.4	4.9	---	e6.0	5.8	89	167	42	99	6.0
31	4.0	---	4.4	4.9	---	e6.0	---	89	---	42	99	---
TOTAL	129.8	113.4	128.8	138.7	135.0	169.5	179.3	2709.5	2309	3831	2195	1190.9
MEAN	4.19	3.78	4.15	4.47	4.82	5.47	5.98	87.4	77.0	124	70.8	39.7
MAX	4.9	4.4	4.5	5.1	5.3	6.0	6.6	110	169	165	99	95
MIN	3.9	3.3	4.0	4.2	4.4	4.9	5.7	5.8	26	42	32	5.7
AC-FT	257	225	255	275	268	336	356	5370	4580	7600	4350	2360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-36, 1938-97, BY WATER YEAR (WY)

MEAN	12.2	10.2	11.0	11.4	11.2	15.2	28.4	96.9	108	83.8	65.5	34.1
MAX	57.8	51.9	97.8	121	55.8	76.7	196	457	926	215	143	104
(WY)	1938	1984	1942	1984	1985	1983	1984	1984	1983	1983	1986	1983
MIN	2.85	3.19	2.67	2.95	3.54	4.69	5.98	27.8	21.0	7.84	7.61	4.59
(WY)	1977	1978	1978	1978	1978	1978	1997	1977	1977	1919	1919	1956

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1915-36, 1938-97

ANNUAL TOTAL	13351.7	13229.9										
ANNUAL MEAN	36.5	36.2										
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	125	Jun 30	169	Jun 28								
LOWEST DAILY MEAN	3.3	Nov 8	3.3	Nov 8								
ANNUAL SEVEN-DAY MINIMUM	3.5	Nov 4	3.5	Nov 4								
ANNUAL RUNOFF (AC-FT)	26480		26240									
10 PERCENT EXCEEDS	95		106									
50 PERCENT EXCEEDS	11		5.8									
90 PERCENT EXCEEDS	4.0		4.0									

e Estimated